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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,517	01/06/2004	Yasuko Yoshida	118254	3345	
25944	7590 06/13/2006		EXAMINER		
OLIFF & BERRIDGE, PLC			DIRAMIO, JA	DIRAMIO, JACQUELINE A	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
	•		1641		
		DATE MAILED: 06/13/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)		
	10/751,517	YOSHIDA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Jacqueline DiRamio	1641		
The MAILING DATE f this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
 Responsive to communication(s) filed on <u>05 Ja</u> This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4) Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-31 are subject to restriction and/or expressions. 	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) D Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)		
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da			

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 18, drawn to a reactive chip, classified in class 422, subclass
 82.01.
- II. Claims 19, 20, 23, 29 and 31, drawn to a method for detecting a target substance, classified in class 436, subclass 164.
- III. Claims 21, 22, and 30 drawn to a method for detecting a target substance, classified in class 436, subclass 149.
- IV. Claims 24, 25, and 28, drawn to a method for detecting the affinity of each of different target substances to a capture probe, classified in class 436, subclass 164.
- V. Claims 26 and 27, drawn to a method for detecting the affinity of each of different target substances to a capture probe, classified in class 436, subclass 149.

The inventions are distinct, each from the other because of the following reasons:

Inventions (II - V) and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process.

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(MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process, such as separation or filtration.

Inventions II – V are directed to related processes. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the methods of Groups II – V have different modes of operation, functions and effects.

Group II is a method for detecting a target substance requiring a labeled target substance, and detecting the target substance bound to the capture probed using the label as an index, which is not required by the methods of Groups III-V.

Group III is a method for detecting a target substance requiring detecting the target substance measuring the change in the resonance frequency of the vibration area as an index, which is not required by the methods of Groups II, IV or V.

Group IV is a method for detecting the affinity of each of different target substances to a capture probe requiring different labeled target substances and vibration surfaces arranged in an identical line to vibrate at different amplitudes, which is not required by the methods of Groups II or III. Group IV further requires detecting the degree of the affinity of each target substance to each respective capture probe toward the capture probe using the label as an index, which is not required by the methods of Groups II, III or V.

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Group V is a method for detecting the affinity of each of different target substances to a capture probe requiring different target substances and vibration areas arranged in an identical line to vibrate at different amplitudes, which is not required by the methods of Groups II or III. Group V further requires detecting the degree of the affinity of each target substance toward each capture probe measuring the change in the resonance frequency of the vibration area as an index, which is not required by the methods of Groups II – IV.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, and because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline DiRamio whose telephone number is 571-272-8785. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jackie DiRamio Patent Examiner

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1690